

**INHIBITION OF ANGIOGENESIS BY HIGH MOLECULAR
WEIGHT KININOGEN DOMAIN 3 PEPTIDE ANALOGS**

Abstract of the Disclosure

Peptide analogs the high molecular weight kininogen domain 3 are
5 potent inhibitors of angiogenesis. The peptides have the formula (a) X₁-
Asn-Asn-Ala-Thr-Phe-Tyr-Phe-Lys-X₂, (b) X₃-Cys-Val-Gly-Cys-X₄, (c) X₅-
Leu-Asp-X₇-Asn-Ala-Glu-Val-Tyr-X₆, or (d) Tyr-Phe-Ile-Asp-Phe-Val-Ala-
Arg-Glu-Thr-Thr-X₇-Ser-Lys-Glu-Ser

wherein:

10 X₁, X₂, X₃, X₄, X₅, and X₆ are from zero to twelve amino acids,
independently the same or different, more preferably from zero to
six amino acids, and;

X₇ is Ala or Cys.

The peptides may also comprise biologically active fragments of high
15 molecular weight kininogen domain 3. Methods of inhibiting endothelial cell
proliferation and angiogenesis are provided.